Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Please amend claims 1, 3, 4, 32 and 38.

1. (Currently Amended) A catheter comprising:

an elongated catheter body having proximal and distal ends and at least one lumen therethrough;

a three-dimensional ablation assembly at or near the distal end of the catheter body, said assembly having a framework defining a length and a circumference, the assembly movable into a collapsed configuration with a greater length and a lesser circumference and an expanded configuration with a lesser length and a greater circumference, the framework comprising a plurality of tensile members interwoven in a manner such that the length increases as the circumference decreases and vice versa, the tensile members having proximal ends mounted between a proximal tubing and an outer proximal ring, and wherein the expanded configuration of the framework has a variable shape that changes to conform to nonuniformly shaped tubular regions;

said assembly also having a ribbon electrode extending along said circumference, said ribbon electrode adapted to move with said framework;

a first electrode lead wire connected to the ribbon electrode;

a tip electrode mounted at or near a distal end of the ablation assembly;

a second electrode lead wire connected to the tip electrode; and

an expander attached to the tensile members and extending through at least the distal end of the catheter body, whereby, in use, the expander can be moved longitudinally relative to the catheter body to expand and collapse the assembly, wherein a portion of the expander extending through the distal end of the catheter body extends through a first tubing within the proximal tubing in the distal end of the catheter body, and the first and second electrode lead wires extend between the first tubing and the proximal tubing.

- 2. (Original) A catheter of claim 1, wherein said framework of the assembly in the expanded configuration has a first circumference in a first section along its length and a different second circumference in a second section along its length.
- 3. (Currently Amended) A catheter of claim 1, further comprising an wherein the expander is attached at or near its distal end to distal ends of the tensile members and extending extends through the catheter body, the expander having a proximal end that extends out the proximal end of the catheter body, and having a lumen extending therethrough, whereby, in use, the expander can be moved longitudinally relative to the catheter body to expand and collapse the assembly.
- 4. (Currently Amended) A catheter of claim 1, further comprising an wherein the expander is attached at or near its distal end to distal ends of the tensile members and extending through at least a distal portion of the catheter body, whereby, in use, the expander can be moved longitudinally relative to the catheter body to expand and collapse the assembly.
 - 5. (Canceled).
 - 6. (Canceled).
- 7. (Original) A catheter of claim 1, wherein the expander is moved proximally to actuate the assembly into the expanded configuration.
 - 8. (Canceled).
 - 9. (Canceled).
 - 10. (Canceled).
- 11. (Original) The catheter of claim 3, wherein the expander comprises plastic tubing.

- 12. (Original) The catheter of claim 3, wherein the expander comprises braided plastic tubing.
- 13. (Original) The catheter of claim 3, wherein the expander has a proximal end attached to a control handle.
- 14. (Previously Presented) The catheter of claim 13, wherein the control handle comprises:

a handle housing having proximal and distal ends, and a piston having a proximal end mounted in the distal end of the handle housing and a distal end fixedly attached to the proximal end of the catheter body;

wherein the proximal end of the expander is fixedly attached, directly or indirectly, to the handle housing so that longitudinal movement of the piston relative to the handle housing results in longitudinal movement of the expander relative to the catheter body to thereby expand and collapse the assembly.

- 15. (Original) The catheter of claim 14, wherein the proximal end of the expander extends outside the proximal end of the control handle and through a support tube.
 - 16. (Canceled).
- 17. (Original) The catheter of claim 3, wherein the expander is generally coaxial with the catheter body.
- 18. (Original) The catheter of claim 3, wherein the expander forms the axis of the assembly.
- 19. (Original) The catheter of claim 1, wherein the assembly comprises at least four tensile members.
- 20. (Original) The catheter of claim 1, wherein each tensile member comprises an internal flexible wire and a non-conductive covering over the flexible wire.

- 21. (Original) The catheter of claim 20, wherein the internal flexible wire of each wire comprises nitinol.
 - 22. (Original) The catheter of claim 1, wherein the ribbon electrode is elastic.
 - 23. (Canceled).
 - 24. (Canceled).
 - 25. (Canceled).
 - 26. (Canceled).
 - 27. (Canceled).
 - 28. (Canceled).
 - 29. (Canceled).
 - 30. (Canceled).
- 31. (Previously Presented) A catheter of claim 1, wherein the ribbon electrode comprises a plurality of ribbon electrodes, each ribbon electrode extending along a circumference of the framework and being adapted to move with the framework.
 - 32. (Currently Amended) A catheter comprising:

an elongated catheter body having proximal and distal ends and at least one lumen therethrough;

a three-dimensional ablation assembly at or near the distal end of the catheter body, said assembly having a framework defining a length and a circumference, the assembly being movable into a collapsed configuration having a greater length and a lesser circumference and an

Appln No. 10/816,396

shaped tubular regions;

Amdt date December 23, 2010

Reply to Office action of August 23, 2010

expanded configuration having a lesser length and a greater circumference, the framework comprising a plurality of tensile members interwoven in a manner such that the length increases as the circumference decreases and vice versa, the tensile members having proximal ends mounted between a proximal tubing and an outer proximal ring, and wherein the framework is sufficiently flexible that the diameter need not be constant along the length and the length need not be constant along the circumference so that the expanded configuration of the framework has a variable shape that changes to conform to differently shaped interior volumes of nonuniformly-

said assembly also having a ribbon electrode extending along said circumference, said ribbon electrode adapted to move with said framework;

an electrode lead wire connected to the ribbon electrode; and

an expander attached to the tensile members and extending through at least the distal end of the catheter body, whereby, in use, the expander can be moved longitudinally relative to the catheter body to expand and collapse the assembly, wherein a portion of the expander extending through the distal end of the catheter body extends through a first tubing within the proximal tubing in the distal end of the catheter body, and the electrode lead wire extends between the first tubing and the proximal tubing.

- 33. (Previously Presented) A catheter of claim 32, wherein the ribbon electrode comprises a plurality of ribbon electrodes, each ribbon electrode extending along a circumference of the framework and being adapted to move with the framework.
- 34. (Previously Presented) A catheter of claim 1, wherein when the ablation assembly is in the collapsed configuration, portions of the ribbon electrode are tucked inward between the tensile members.
- 35. (Previously Presented) A catheter of claim 32, wherein when the ablation assembly is in the collapsed configuration, portions of the ribbon electrode are tucked inward between the tensile members.

-6-

- 36. (Previously Presented) A catheter of claim 1, further comprising a proximal location sensor mounted proximal the ablation assembly, and a distal location sensor mounted distal the ablation assembly.
- 37. (Previously Presented) A catheter of claim 32, further comprising a proximal location sensor mounted proximal the ablation assembly, and a distal location sensor mounted distal the ablation assembly.

38. (Currently Amended) A catheter comprising:

an elongated catheter body having proximal and distal ends and at least one lumen therethrough;

a three-dimensional ablation assembly at or near the distal end of the catheter body, said assembly having a framework defining a length and a circumference, the assembly movable into a collapsed configuration with a greater length and a lesser circumference and an expanded configuration with a lesser length and a greater circumference, the framework comprising a plurality of tensile members interwoven in a manner such that the length increases as the circumference decreases and vice versa, the tensile members having proximal ends mounted between [[an]] a proximal tubing and an outer proximal ring, and wherein the expanded configuration of the framework has a variable shape in which the length and circumference vary interdependently to each other to conform to differently shaped surrounding volumes;

said assembly also having a ribbon electrode extending along said circumference, said ribbon electrode adapted to move with said framework;

an electrode lead wire connected to the ribbon electrode; and

an expander attached to the tensile members and extending through at least the distal end of the catheter body, whereby, in use, the expander can be moved longitudinally relative to the catheter body to expand and collapse the assembly, wherein a portion of the expander extending through the distal end of the catheter body extends through a first tubing within the proximal tubing in the distal end of the catheter body, and the electrode lead wire extends between the first tubing and the proximal tubing.